

NEWS 30 Oct 25 MEDLINE SDI run of October
8, 2002
NEWS 31 Nov 18 DKLIT has been renamed
APOLLIT
NEWS 32 Nov 25 More calculated properties
added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from
STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT
Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with
additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight
now available on STN
NEWS 38 Dec 30 ISMECT no longer available
NEWS 39 Jan 13 Indexing added to some pre-
1967 records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS
VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS
V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS
DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help
Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and
Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site
(general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 11:38:13 ON 14 JAN 2003

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY	SESSION
FULL ESTIMATED COST	0.21
0.21	0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,

CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI,
CROPB, CROPU, DDFB, DDFU, DGENE,
DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'
ENTERED AT 11:38:23 ON 14 JAN 2003

64 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term
postings or to view
search error messages that display as 0* with
SET DETAIL OFF.

=> s zinc? (4a) potassium? (4a) calcium? (4a)
rubidium

```
1     FILE ANABSTR
1     FILE AQUASCI
36    FILE BIOSIS
7     FILE CABA
13    FILES SEARCHED...
3     FILE CAPLUS
1     FILE CROPU
5     FILE EMBASE
3     FILE FROSTI
37    FILES SEARCHED...
1     FILE HEALSAFE
5     FILE IFIPAT
4     FILE MEDLINE
1     FILE NIOSHTIC
1     FILE NTIS
1     FILE PASCAL
2     FILE SCISEARCH
9     FILE TOXCENTER
37    FILES USPATFULL
1     FILE USPAT2
62    FILES SEARCHED...
4     FILE WPIDS
4     FILE WPINDEX
```

20 FILES HAVE ONE OR MORE ANSWERS, 64
FILES SEARCHED IN STNINDEX

L1 QUE ZINC? (4A) POTASSIUM? (4A) CALCIUM?
(4A) RUBIDIUM

=> s 11 (s) (skin? or wound? or heal? or epiderm? or cutic? or lacerat? or ulcer?)

```
12 FILES SEARCHED...
23 FILES SEARCHED...
33 FILES SEARCHED...
          0* FILE FEDRIP
45 FILES SEARCHED...
50 FILES SEARCHED...
58 FILES SEARCHED...
          1 FILE USPATFULL
```

1 FILES HAVE ONE OR MORE ANSWERS, 64
FILES SEARCHED IN STNINDEX

L2 QUE L1 (S) (SKIN? OR WOUND? OR HEAL? OR
EPIDERM? OR CUTIC? OR LACERAT? OR
ULCER?)

=> s 11 (s) (skin? or wound? or heal? or epiderm? or cutic? or lacerat? or ulcer? or topical? or cream? or antisept? or transderm?)

13 FILES SEARCHED...
22 FILES SEARCHED...
30 FILES SEARCHED...

```
0* FILE FEDRIP
34 FILES SEARCHED...
45 FILES SEARCHED...
55 FILES SEARCHED...
1 FILE USPATFULL
```

1 FILES HAVE ONE OR MORE ANSWERS, 64
FILES SEARCHED IN STNINDEX

L3 QUE L1 (S) (SKIN? OR WOUND? OR HEAL? OR EPIDERM? OR CUTIC? OR LACERAT? OR ULCER? OR TOPICAL? OR CREAM? OR ANTISEPT? OR TRANSDERM?)

=>
Connection closed by remote host

Welcome to STN International! Enter x:x

LOGINID: ssspta1651pxp

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

LOGINID: ssspta1651pxp

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL
* * * * *
SESSION RESUMED IN FILE 'HOME' AT 13:48:39 ON
17 JAN 2003
FILE 'HOME' ENTERED AT 13:48:39 ON 17 JAN 2003
COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY SESSION
FULL ESTIMATED COST
0.21 0.21

=> index bioscience napralert

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY	SESSION
FULL ESTIMATED COST	0.21

65 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term
postings or to view
search error messages that display as 0* with
SET DETAIL OFF.

```
=> s (ca? or calcium) (s) (kcl or kpo? or
potassium?) (s) (zn? or zinc?) (s) (rubidium
or rb?)
```

5 FILE AGRICOLA
4 FILES SEARCHED...
9 FILE ANABSTR
12 FILE AQUASCI
6 FILES SEARCHED...
2 FILE BIOBUSINESS
7 FILES SEARCHED...
116 FILE BIOSIS
9 FILES SEARCHED...
3 FILE BIOTECHABS
10 FILES SEARCHED...
3 FILE BIOTECHDS
5 FILE BIOTECHNO
12 FILES SEARCHED...
32 FILE CABA
13 FILES SEARCHED...
4 FILE CANCERLIT
14 FILES SEARCHED...
87 FILE CAPLUS
1 FILE CEABA-VTBT
16 FILES SEARCHED...
18 FILES SEARCHED...
1 FILE CROPU
24 FILES SEARCHED...
3 FILE DRUGU

Welcome to STN International! Enter x:x

```

34 FILE EMBASE
32 FILES SEARCHED...
8 FILE ESBIOBASE
33 FILES SEARCHED...
1* FILE FEDRIP
12 FILE FROSTI
37 FILES SEARCHED...
3 FILE FSTA
0* FILE GENBANK
39 FILES SEARCHED...
1 FILE HEALSAFE
282 FILE IFIPAT
9 FILE JICST-EPLUS
42 FILES SEARCHED...
12 FILE LIFESCI
44 FILES SEARCHED...
35 FILE MEDLINE
46 FILES SEARCHED...
17 FILE NIOSHTIC
30 FILE NTIS
48 FILES SEARCHED...
3 FILE OCEAN
0* FILE PASCAL
50 FILES SEARCHED...
54 FILES SEARCHED...
5 FILE PROMT
55 FILES SEARCHED...
55 FILE SCISEARCH
56 FILES SEARCHED...
37 FILE TOXCENTER
58 FILES SEARCHED...
0* FILE USPATFULL
17 FILE USPAT2
60 FILES SEARCHED...
1 FILE VETB
2 FILE VETU
0* FILE WPIDS
0* FILE WPINDEX
64 FILES SEARCHED...

=> s 11 (s) (topical? or skin? or epiderm? or
ulcer? or lacerat? or cut? or scrape? or heal?
or wound?)

L1 NOT FOUND
The L-number entered could not be found. To
see the definition
of L-numbers, enter DISPLAY HISTORY at an
arrow prompt (=>).

=> index bioscience napralert

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS
SINCE FILE      TOTAL

ENTRY      SESSION
FULL ESTIMATED COST
24.75      24.96

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS,
AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS,
BIOCOMMERCE, BIOSIS, BIOTECHABS,
BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,
CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI,
CROPB, CROPU, DDFB, DDFU, DGENE,
DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'
ENTERED AT 14:16:13 ON 17 JAN 2003

65 FILES IN THE FILE LIST IN STNINDEX

```

```

Enter SET DETAIL ON to see search term
postings or to view
search error messages that display as 0* with
SET DETAIL OFF.

=> s 11

L1 NOT FOUND
The L-number entered has not been defined in
this session, or it
has been deleted. To see the L-numbers
currently defined in this
session, enter DISPLAY HISTORY at an arrow
prompt (=>).

=> s (ca? or calcium) (s) (kcl or kpo? or
potassium?) (s) (zn? or zinc?) (s) (rubidium
or rb?)

5 FILE AGRICOLA
4 FILES SEARCHED...
9 FILE ANABSTR
12 FILE AQUASCI
6 FILES SEARCHED...
2 FILE BIOBUSINESS
7 FILES SEARCHED...
116 FILE BIOSIS
9 FILES SEARCHED...
3 FILE BIOTECHABS
10 FILES SEARCHED...
3 FILE BIOTECHDS
11 FILES SEARCHED...
5 FILE BIOTECHNO
12 FILES SEARCHED...
32 FILE CABA
13 FILES SEARCHED...
4 FILE CANCERLIT
14 FILES SEARCHED...
87 FILE CAPLUS
1 FILE CEABA-VTB
16 FILES SEARCHED...
18 FILES SEARCHED...
1 FILE CROPU
24 FILES SEARCHED...
3 FILE DRUGU
34 FILE EMBASE
32 FILES SEARCHED...
8 FILE ESBIOBASE
33 FILES SEARCHED...
1* FILE FEDRIP
12 FILE FROSTI
37 FILES SEARCHED...
3 FILE FSTA
0* FILE GENBANK
39 FILES SEARCHED...
1 FILE HEALSAFE
282 FILE IFIPAT
41 FILES SEARCHED...
9 FILE JICST-EPLUS
43 FILES SEARCHED...
12 FILE LIFESCI
44 FILES SEARCHED...
35 FILE MEDLINE
46 FILES SEARCHED...
17 FILE NIOSHTIC
30 FILE NTIS
48 FILES SEARCHED...
3 FILE OCEAN
0* FILE PASCAL
50 FILES SEARCHED...
54 FILES SEARCHED...

```

NEWS 22 Aug 26 Sequence searching in
REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and
enhanced
NEWS 24 Sep 16 Experimental properties
added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus
available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with
Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search
fields
NEWS 29 Oct 24 Nutraceuticals International
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NEWS 30 Oct 25 MEDLINE SDI run of October
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NEWS 39 Jan 13 Indexing added to some pre-
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VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS
V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS
DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help
Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and
Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site
(general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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NEWS HOURS STN Operating Hours Plus Help
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Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 14:22:18 ON 21 JAN 2003
=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY	SESSION
FULL ESTIMATED COST	
0.21	0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS,
AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS,
BIOCOMMERCE, BIOSIS, BIOTECHABS,
BIOTECHDHS, BIOTECHNO, CABA, CANCERLIT,
CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI,
CROPB, CROPU, DDFB, DDFU, DGENE,
DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'
ENTERED AT 14:22:28 ON 21 JAN 2003

64 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term
postings or to view
search error messages that display as 0* with
SET DETAIL OFF.

=> s (zn? or zinc) (s) (ca? or calcium) (s) (rubidium or rb?) (s) (kcl or potassium)

```
5 FILE AGRICOLA
4 FILES SEARCHED...
9 FILE ANABSTR
12 FILE AQUASCI
6 FILES SEARCHED...
2 FILE BIOBUSINESS
7 FILES SEARCHED...
116 FILE BIOSIS
9 FILES SEARCHED...
3 FILE BIOTECHARS
```

3 FILE BIOTECHDS
11 FILES SEARCHED...
5 FILE BIOTECHNO
12 FILES SEARCHED...
32 FILE CABA
13 FILES SEARCHED...
4 FILE CANCERLIT
14 FILES SEARCHED...
87 FILE CAPLUS
1 FILE CEABA-VTB
16 FILES SEARCHED...
18 FILES SEARCHED...
1 FILE CROPU
24 FILES SEARCHED...
3 FILE DRUGU
31 FILES SEARCHED...
34 FILE EMBASE
32 FILES SEARCHED...
8 FILE ESBIOBASE
33 FILES SEARCHED...
1* FILE FEDRIP
12 FILE FROSTI
37 FILES SEARCHED...
3 FILE FSTA
0* FILE GENBANK
39 FILES SEARCHED...
1 FILE HEALSAFE
282 FILE IFIPAT
41 FILES SEARCHED...
9 FILE JICST-EPLUS
43 FILES SEARCHED...
12 FILE LIFESCI
44 FILES SEARCHED...
35 FILE MEDLINE
46 FILES SEARCHED...
17 FILE NIOSHTIC
30 FILE NTIS
48 FILES SEARCHED...
3 FILE OCEAN
0* FILE PASCAL
50 FILES SEARCHED...
54 FILES SEARCHED...
5 FILE PROMT
55 FILES SEARCHED...
55 FILE SCISEARCH
56 FILES SEARCHED...
37 FILE TOXCENTER
58 FILES SEARCHED...
0* FILE USPATFULL
17 FILE USPAT2
60 FILES SEARCHED...
1 FILE VETB
2 FILE VETU
0* FILE WPIDS
0* FILE WPINDEX

=>
Connection closed by remote host

Welcome to STN International! Enter x:x

LOGINID: ssspta1651pxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1 Web Page URLs for STN
Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help
around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and
Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications
available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com
available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now
available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress
(FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for
search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains
STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28,
2002;
valid saved answer sets no longer
NEWS 14 Jul 29 Enhanced polymer searching
in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from
STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML)
- new on STN
NEWS 18 Aug 08 NTIS has been reloaded and
enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information
Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB
have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of
TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in
REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and
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FILE 'HOME' ENTERED AT 15:04:45 ON 21 JAN 2003

=> fil biosis medline caplus napralert

COST IN U.S. DOLLARS
SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST
0.21 0.21

FILE 'BIOSIS' ENTERED AT 15:04:54 ON 21 JAN
2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS
INC. (R)

FILE 'MEDLINE' ENTERED AT 15:04:54 ON 21 JAN
2003

FILE 'CAPLUS' ENTERED AT 15:04:54 ON 21 JAN
2003
USE IS SUBJECT TO THE TERMS OF YOUR STN
CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY
(ACS)

FILE 'NAPRALERT' ENTERED AT 15:04:54 ON 21 JAN
2003

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University of Illinois,
University of Illinois at Chicago.

=> s (ca? or calcium) (s) (zn? or zinc) (s)
(kcl? or potassium) (s) (rb? or rubidium)

1 FILES SEARCHED...
2 FILES SEARCHED...
L1 244 (CA? OR CALCIUM) (S) (ZN? OR
ZINC) (S) (KCL? OR POTASSIUM) (S)
 (RB? OR RUBIDIUM)

=> dup rem 11

PROCESSING COMPLETED FOR L1
L2 213 DUP REM L1 (31 DUPLICATES
REMOVED)

=> s 12 and (skin? or topical? or epiderm? or wound?)

L3 3 L2 AND (SKIN? OR TOPICAL? OR
EPIDERM? OR WOUND?)

=> d 13 1- all

YOU HAVE REQUESTED DATA FROM 3 ANSWERS -
CONTINUE? Y/ (N): y

L3 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2003
BIOLOGICAL ABSTRACTS INC.
AN 2001:271153 BIOSIS
DN PREV200100271153
TI Compositions of oak bark extract related
synthetic compositions and method
of using same.
AU Hon, David N.-S (1); Stanley, R. Thomas
CS (1) Clemson, SC USA
ASSIGNEE: Greystone Medical Group, Inc.,
Memphis, TN, USA
PI US 6149947 November 21, 2000
SO Official Gazette of the United States
Patent and Trademark Office Patents,
(Nov. 21, 2000) Vol. 1240, No. 3, pp. No
Pagination. e-file.
ISSN: 0098-1133.
DT Patent
LA English
AB Higher concentrations of oak bark ash
extract, i.e., greater than 20% by
weight, are useful for the treatment of
skin ***cancers***.
Lower concentrations of oak bark extract
possess additional therapeutic
properties not heretofore recognized. For
example, preparations containing
40-80% oak bark extract are useful in the
treatment of acute
cancerous ***skin***
ulcers. In addition, synthetic mixtures
containing ***potassium*** ions,
zinc ions, ***calcium***
ions provide many of the same
advantageous properties of oak bark extract.
The inclusion of ***rubidium*** ions
and sulfur is also advantageous
for some applications.
NCL 424641000
IT Major Concepts

Methods and Techniques; Pharmacognosy (Pharmacology)
 IT Diseases
 skin cancer: integumentary system disease, neoplastic disease
 IT Chemicals & Biochemicals
 oak bark ash extract: antineoplastic - drug
 IT Alternate Indexing
 Skin Neoplasms (MeSH)

L3 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2003
 BIOLOGICAL ABSTRACTS INC.
 AN 1987:190873 BIOSIS
 DN BA83:98997
 TI COMPARISON OF DISTRIBUTION OF TRACE AND OTHER ELEMENTS IN HEART AND SKELETAL MUSCLE AND SERUM IN RATS BEARING A TRANSPLANTABLE FIBROSARCOMA.
 AU LARSSON S; KARLBERG I; PETERSSON H-I; SELIN E
 CS LAB. BIORHEOL., DEP. SURG. I, SAHLGREN'S UNIV. HOSP., S-413 45 GOTEBORG, SWEDEN.
 SO TRACE ELEM MED, (1986) 3 (1), 5-10.
 CODEN: TEMDE6.
 FS BA; OLD
 LA English
 AB ***Cancer*** ***cachexia*** is a potential feature of all malignant diseases. The reason for this wasting of peripheral tissue is not yet fully understood, but anorexia and decreased food intake as well as pathologic energy production due to recycling of glucose and glucose precursors from peripheral tissues have all been implicated. Specimens from serum and from normal skeletal and heart muscle tissue were taken from Lister rats bearing a transplantable intramuscular methylcholanthrene-induced fibrosarcoma during an early phase of tumor disease when no anorexia was apparent. These specimens were studied by energy dispersive x-ray fluorescence spectrometry to obtain a quantitative evaluation of trace element concentrations. We found an increased concentration of iron and copper in serum during tumor growth whereas heart muscle showed an associated decrease of these ions. In skeletal muscle no such decrease of iron content occurred. ***Zinc***, a factor of major importance in ***wound*** healing, decreased in serum and increased in skeletal and heart muscle tissue. Selenium decreased in serum during tumor growth and increased in heart muscle. In skeletal muscle the selenium content was below the limits of detection. Correlations between the various elements were also studied. Some of these included ions with few known effects, suggesting a significant biological role. Strong correlations were found for the distribution of chlorine and bromine as

well as for ***potassium*** and ***rubidium***. In these correlations copper appeared to have kinetic properties different from the other trace elements. Deterioration of heart muscle function, decreased heart muscle protein synthesis and decreased numbers of myofibrils in hearts from tumor-bearing rats have been shown elsewhere. The decreased content of iron found in this study is consistent with a decrease in contractile proteins in hearts from tumor-bearing rats. The redistribution of ***zinc*** that was found from serum to skeletal muscle may be part of a defense mechanism secondary to the ***cachetic*** reaction. Ions with known significance for heart muscle performance, e.g. ***potassium*** and ***calcium***, were not significantly changed in hearts from tumor-bearing compared to non-tumor-bearing rats.
 CC Biochemical Studies - Proteins, Peptides and Amino Acids 10064
 Biochemical Studies - Minerals 10069
 Metabolism - Minerals *13010
 Metabolism - Proteins, Peptides and Amino Acids *13012
 Metabolism - Metabolic Disorders *13020
 Nutrition - Malnutrition; Obesity *13203
 Nutrition - Minerals *13206
 Cardiovascular System - Heart Pathology *14506
 Blood, Blood-Forming Organs and Body Fluids - Blood and Lymph Studies *15002
 Muscle - Pathology *17506
 Bones, Joints, Fasciae, Connective and Adipose Tissue - Pathology *18006
 Neoplasms and Neoplastic Agents - Pathology; Clinical Aspects; Systemic Effects *24004
 Neoplasms and Neoplastic Agents - Biochemistry *24006
 BC Muridae 86375
 IT Miscellaneous Descriptors
 CANCER CACHEXIA MALNUTRITION PROTEIN SYNTHESIS

L3 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2003
 BIOLOGICAL ABSTRACTS INC.
 AN 1985:407511 BIOSIS
 DN BA80:77503
 TI ***SKIN*** PENETRATION OF MINERALS IN PSORIATICS AND GUINEA-PIGS
 BATHING IN HYPERTONIC SALT SOLUTIONS.
 AU SHANI J; BARAK S; LEVI D; RAM M; SCHACHNER E R; SCHLESINGER T; ROBBERECHT H; VAN GRIEKEN R; AVRACH W W
 CS DEPARTMENT OF PHARMACOL., HEBREW UNIVERSITY SCHOOL OF PHARMACY, POB 12065, JERUSALEM.
 SO PHARMACOL RES COMMUN, (1985) 17 (6), 501-512.
 CODEN: PLRCAT. ISSN: 0031-6989.
 FS BA; OLD
 LA English

AB Penetration of electrolytes through the human ***skin*** was measured in healthy volunteers and in psoriatic patients after bathing in the Dead-Sea or in simulated bath-salt solutions. Significant increases in the levels of serum Br, Rb, Ca and Zn were noticed only in the psoriatic patients after daily bathing in the Dead-Sea for a 4-wk regimen.

Guinea-pigs bathed in simulated Dead-Sea bath-salt solutions containing radionuclides of Ca, Mg, K and Br. Traces of each radionuclide were

detected in the blood and in some internal organs after 60 min of bathing.

The radionuclides showed a physiological pattern in their organ distribution. Even though the whole investigation was carried out in hypertonic solutions, there is a definite penetration of salts through healthy (human and guinea-pigs) and damaged (psoriatic) ***epidermis***.

. Improvement of the psoriatic condition after bathing in the Dead-Sea may be partly attributed (in addition to UV irradiation) to the minerals' effect on the psoriatic ***skin*** .

CC Radiation - Radiation and Isotope Techniques 06504

Biochemical Studies - Minerals *10069
External Effects - Light and Darkness

10604

Physiology, General and Miscellaneous -
Exercise and Physical Therapy
*12010
Pathology, General and Miscellaneous -
Therapy *12512
Blood, Blood-Forming Organs and Body
Fluids - Blood and Lymph Studies

15002

Integumentary System - Pathology *18506

BC Hominidae 86215

Caviidae 86300

IT Miscellaneous Descriptors

HUMAN BROMINE ***RUBIDIUM***

CALCIUM ***ZINC***

CALCIUM MAGNESIUM

POTASSIUM DEAD SEA

RN 7439-95-4 (MAGNESIUM)

7440-09-7 (POTASSIUM)

7440-17-7 (RUBIDIUM)

7440-66-6 (ZINC)

7440-70-2 (CALCIUM)

7726-95-6 (BROMINE)